

# 120-960 Watts ADN Series

## 3-Phase



**Total Power:** 120 - 960 Watts  
**Input Voltage:** 1Ø or 3Ø 380-480 VAC  
**# of Outputs:** One

### Special Features

- Complies with EN61000-3-2
- DC OK Signal (indicator)
- Adjustable Voltage
- Industrial grade design (no derating to 60°C)
- User-friendly front panel
- Single phase input available
- Highly efficient >90% switching technology
- High MTBF and reliability
- Peak current capability 2x rated current for 2 seconds
- Three year warranty

### Environmental

Storage/shipment	-25°C to +85°C
Operating (convection)	-10°C to 60°C (derate to 50% at +70°C)
Humidity	<90% RH noncondensing per IEC 68-2-2, 68-2-3 IP20 (EN60529), protection from moisture & condensation

Note: Derate output to 50% when unit is mounted sideways or front side up.

### Electrical Specs

#### Input

Nominal voltage	380-480 VAC
Power factor (PFC)	EN61000-3-2
AC Input range	340-576 VAC
DC Input range	450-820 VDC
Frequency	47 - 63 Hz, 500 Hz
Phase	1Ø or 3Ø on 5, 10 & 20A* models. 30A & 40A models are 3Ø only.

#### Output

Nominal voltage	24V (22.5 - 28.5 VDC Adj.)
Holdup time	>20ms at full load (25°C)
Tolerance	<±2% overall (combination line/load/time/temp)
Line regulation	<0.5%
Load regulation	<0.5%
Time & temp. drift	<1%
Initial voltage setting	24.5V ±1%
Ripple	<50mVpp
Parallel Operation	Current limit (fold forward) constant power User selectable Active single wire parallel
	10A, 20A, 30A 40A
Over voltage protection	>30.5 <33 VDC

\*On 20A unit, derate to 75% when operating 1Ø.

### Safety

EMC Emissions	EN500081-1, -2 Class B EN55011, EN55022 Radiated and Conducted including Annex A.
Immunity	EN50082-1, -2; EN61000-4-2, Level 4, EN61000-4-3 Level 3, EN61000-4-6 Level 3; EN61000-4-4 Level 4 input and Level 3 output; EN61000-4-5 Isolation Class 4, EN61000-4-11; Transient resistance according to VDE 0160/W2 over entire load range.
Approvals	CB Scheme, EN60950; EN50178; EN60204; UL508 Listed, cULus; UL60950, cRUus, CE (LVD 73/23 & 93/68/EEC) EN61000-3-2, IEC 60079-15 Class 1, Zone 2 hazardous location, Groups IIA, IIB, IIC w/T3 temp class up to 60°C Ambient.
Protection	Class 1 (IEC536), degree of protection SELV rated per EN60950

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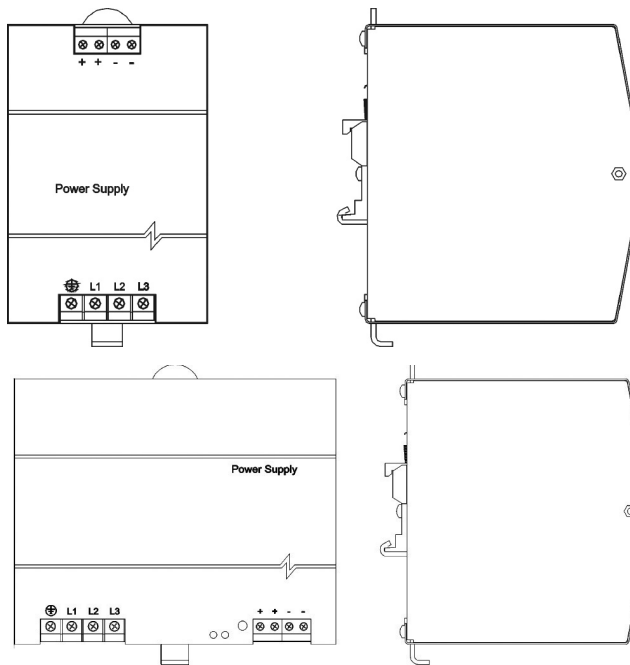
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**Ordering Information**

Model	Weight	Power	Input Voltage	Current
ADN5-24-3PM	1.7lbs (730g)	120W	380-480VAC	5A
ADN10-24-3PM	2.16lbs (980g)	240W	380-480VAC	10A
ADN20-24-3PM	3.97lbs. (1800g)	480W	380-480VAC	20A
ADN30-24-3PM	4.0lbs (2000g)	720W	380-480VAC	30A
ADN40-24-3PM	6.6lbs (3300g)	960W	380-480VAC	40A



Catalog Number	Dimensions - inches (mm)		
	H	W	D
ADN5-24-3PM	4.88 (124)	2.91 (73)	4.55 (116)

Catalog Number	Dimensions - inches (mm)		
	H	W	D
ADN10-24-3PM	4.88 (124)	3.50 (89)	4.55 (116)
ADN20-24-3PM	4.88 (124)	5.90 (150)	4.55 (116)
ADN30-24-3PM	4.88 (124)	9.72 (247)	4.55 (116)
ADN40-24-3PM	4.88 (124)	11.10 (282)	4.55 (116)

Installation		
Fusing		
-Input	Internally fused.	
-Output	Outputs are capable of providing high currents for short periods of time for inductive load startup or switching. Fusing may be required for wire/loads if 2x Nominal O/P current rating cannot be tolerated. Continuous current overload allows for reliable fuse tripping.	
Mounting	Simple snap-on system for DIN Rail TS35/7.5 or TS35/15 or chassis-mounted (optional screw mounting set SDN-PMBRK2 required).	
Connections	Input: IP20-rated screw terminals, connector size range: 16-10 AWG (1.5-6 mm <sup>2</sup> ) for solid conductors. 16-12 AWG (0.5-4 mm <sup>2</sup> ) for standard conductors. Output: Two connectors per output, connector size range: 16-10 AWG (1.5 - 6mm <sup>2</sup> ) for solid conductors.	
Case	Fully enclosed metal housing with fine ventilation grid to keep out small parts.	
-Free Space	25mm above and below 25 mm left and right 15 mm in front	70 mm above and below 25 mm left and right 15 mm in front